



- High-volume Vertical Display Mounting Applications
- Useful for Connection of Board-to-Board Jumpers and DIP Switches, as well as LED Devices



- **STANDARD BODY MATERIAL:** black UL 94 V-0 4/6 Nylon
- **BIFURCATED CONTACTS:** Grade-A spring-tempered Phosphor Bronze per QQ-B-750
- **STANDARD CONTACT PLATING:** 50μ [1.27μ] min. matte Sn per ASTM B545-97 over 50μ [1.27] Ni per QQ-N-290 –OR– 90/10 Sn/Pb per MIL-T-10727 Type 1 over 50μ [1.27] Ni per QQN-290
- **CONTACT CURRENT RATING:** 1 amp
- **OPERATING TEMPERATURE:** 221°F [105°C]
- **INSERTION FORCE:** 110g/pin average
- **WITHDRAWAL FORCE:** 75g/pin average
- **FLAT LEADS:** up to 0.014 [0.36] thick and 0.020 [0.51] wide
- **ROUND LEADS:** up to 0.020 [0.51] dia.
- **LEAD LENGTHS:** 0.75-0.160 [1.91-4.06] dia.

- **SUGGESTED PCB HOLE SIZE**
For P/N 14-810-90R = 0.036 ± 0.002 [0.91 ± 0.05] dia.
For P/N XX-822-90E = 0.044 ± 0.002 [1.12 ± 0.05] dia.

XX-822-90 E XXXX
14-810-90R | XXXX

- **Optional Rail & Plating**
 - WR = Without Rails
 - TL = Sn/Pb
 - WRTL = Without Rails, Sn/Pb
- **Economy Version**
- **Display Angle**
- **Series**
- **Pin Count**
(See Table)

Technical drawing of a mechanical assembly, likely a connector or probe, showing dimensions in inches and millimeters. The drawing includes a side view on the left and a top view on the right.

Side View Dimensions:

- PIN #1 I.D. (Inch): .390 [9.91]
- Pin Diameter (Inch): .075 [1.91]
- Pin Spacing (Inch): .750 [19.05]
- Pin Diameter (Inch): .020 x .025 [.51 x .64]
- Pin Spacing (Inch): .150 ± .010 [3.81 ± .25]
- Pin Diameter (Inch): .025 ± .002 [.64 ± .05]
- Pin Spacing (Inch): .300 ± .003 [7.62 ± .08]
- Pin Diameter (Inch): .100 ± .003 [2.54 ± .08]
- TOL. NON-CUM.

Top View Dimensions:

- SEATING PLANE
- RAILS
- 90° ± 2°
- Pin Spacing (Inch): 1.050 [26.67]
- Pin Spacing (Inch): .150 [3.81]
- Pin Spacing (Inch): .250 [6.35]
- Pin Diameter (Inch): .125 ± .016 [3.16]
- Pin Spacing (Inch): .400 [10.16]
- Pin Spacing (Inch): .360 [9.14]
- Pin Diameter (Inch): .006 ± .002 [.15 ± .05]
- Pin Diameter (Inch): .100 ± .003 [2.54 ± .08]
- TOL. NON-CUM.

Technical drawing of a 10-pin connector assembly. The drawing includes a side view and a contact detail view.

Side View Dimensions:

- "A" (Overall Length): $\pm .003$ [0.08]
- "B" (Pin Spacing): $\pm .003$ [0.08]
- PIN #1 I.D. (Pin 1 Inner Diameter)
- SEATING PLANE (Indicated by an arrow)
- RAILS (Indicated by an arrow)
- Overall Width: .390 [9.91]
- Pin Diameter: .020 X .025 [.51 X .64]
- Pin Spacing: .025 $\pm .002$ [.64 $\pm .05$]
- Pin Length: .100 $\pm .003$ [2.54 $\pm .08$]
- Pin Tolerance: TOL. NON-CUM
- Pin Spacing: .100 $\pm .010$ [2.54 $\pm .25$]
- Pin Diameter: .006 $\pm .002$ [.15 $\pm .05$]
- Pin Length: .280 [7.11]
- Pin Diameter: .300 $\pm .003$ [7.62 $\pm .08$]
- Pin Length: .260 [6.60]
- Pin Diameter: .300 [7.62]
- Pin Length: .150 $\pm .010$ [3.81 $\pm .25$]
- Pin Angle: $90^\circ \pm 2^\circ$
- Pin Diameter: .025 $\pm .002$ [.64 $\pm .05$]
- Pin Length: .200 $\pm .003$ [5.08 $\pm .08$]

Formulas:

- "W" NO. OF PINS PER ROW $\times 0.100$ [2.54]
- "X" (NO. OF PINS PER ROW - 1) $\times 0.100$ [2.54]

Contact Detail View:

- SEATING PLANE (Indicated by an arrow)
- Pin Diameter: .125 [3.18]
- Pin Length: .065 [1.65]
- Pin Diameter: .160 [4.06]

Body Style	Dim. "Y"	Dim. "Z"	Pin Count
A	0.450 [11.43]	0.300 [7.62]	8, 10
B	0.750 [19.05]	0.600 [15.24]	8, 10, 12, 14, 16
B	0.850 [21.59]	0.700 [17.78]	8, 10
B	0.950 [24.13]	0.800 [20.32]	8, 10, 12, 14, 16

ALL DIMENSIONS: INCHES [MILLIMETERS]
ALL TOLERANCES: ± 0.005 [0.13] UNLESS OTHERWISE SPECIFIED
FOR HORIZONTAL MOUNTING, SEE DATA SHEET 13005
CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

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